

SIR APOLLO KAGGWA SCHOOLS- SINCE 1996
HUB TEST 2 TERM III 2024
P.7 MATHEMATICS

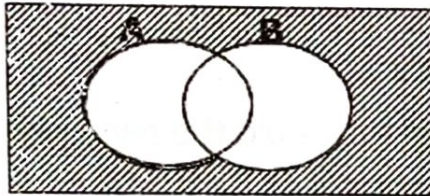
NAME: _____ Stream _____

SCHOOL: _____

SECTION A (40 MARKS)

1. Work out: 43×2

2. Describe the unshaded part in the Venn diagram.



3. Write **215** in Roman Numerals.

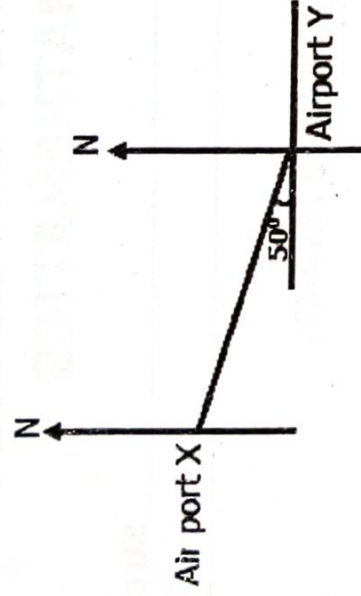
4. Find the next number in the sequence.

1 , 2 , 6 , 15 , 31 , _____

5. Simplify: $-8 - -10$

6. There are **40** pupils in a class. If **25** pupils are present today, what percentage of the whole class is absent?

7. The diagram below shows the positions of two airports **X** and **Y**. Work out the bearing of **X** from airport **Y**.



8. 5 cakes cost **sh. 2500**, what is the cost of **12** similar cakes?
9. A baby slept at **7:15am** for **2 1/2 hrs**. At what time did the baby wake up?
10. The bag weighs **2500 grams**. Express this mass in **kg**.

11. Solve: $7w - 7 = 0$

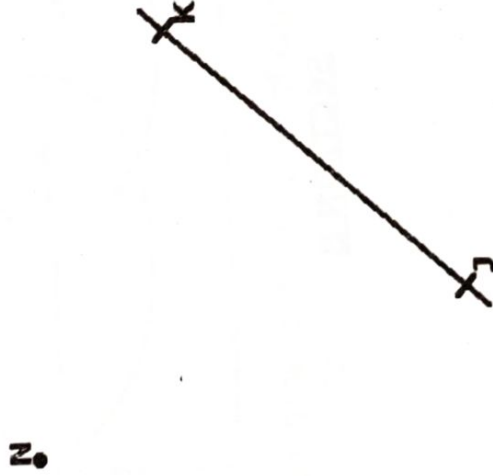
12. Study the table below and find the median.

Marks	50	80	75	98
No. of pupils	1	2	3	1

13. Write **67,000** in standard form.

14. Mukisa deposited **shs. 60,000** in bank which gives a simple interest of **30%** per month. Find the simple interest after **10** months.

15. Using a ruler a pencil and a pair of compasses only, construct a perpendicular line from **N** to line segment **JK**.

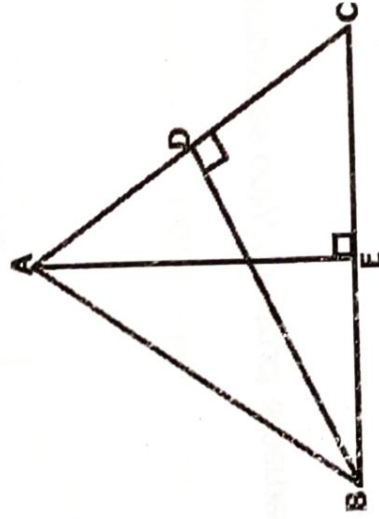


16. Find the range of **80, 42, 63** and **90**.

17. Pius covered a distance of **60km** in **45** minutes. Calculate his speed in **km/hr**.

18. Round off 4604 to the nearest thousands.

19. Find the length of line **AE** in the figure below if **AC = 20cm**, **BC = 15cm** and **BD = 8cm**



20. Find the **GCF** of **24** and **36**.

SECTION B

21a) Work out: $1\ 1\ 0\ 1_{\text{two}}$

$$+ \quad 1\ 1\ 1_{\text{two}}$$

(2marks)

b) Find the value of **P** in

$$2p1_{\text{five}} = 123_{\text{seven}}$$

(3marks)

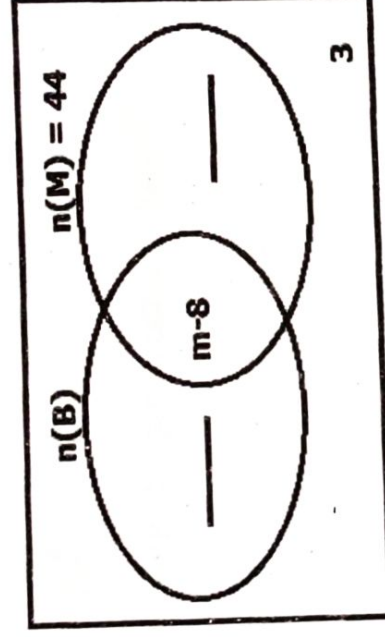
22a) Find the number which has been expanded to give;

$$(9 \times 10^4) + (3 \times 10^2) + (2 \times 10^0)$$

b) Use distributive property to work out: $99 \div 4 - 19 \div 4$ (2marks)

23. In a farmers' club ($2m - 1$) grow beans (B) but not maize (M), **44** grow maize, ($m-8$) grow both beans and maize while **3** grow other crops.

a) Use the information above to complete the Venn diagram below. (2marks)



b) If **70** farmers grow only one type of crop, find the value of **m**. (2marks)

c) Find the probability of picking a farmer at random who grows maize. (2marks)

24. The table below shows the items Mrs. Genda bought from a market. Study carefully and use it to answer the questions that follow.

Item	Quantity	Unit cost	Amount
Rice	4kg	Sh. 4600 per kg	Sh. _____
Beef	_____ kg	Sh. 16000 per kg	Sh. 12000
Salt	500g	Sh. _____ per kg	Sh. 1600
Biscuits	2 packets	Sh. 6000 per packet	Sh. _____
		Total	Sh. _____

- a) Complete the table above.

(5marks)

- b) If she paid **sh. 39600**, find her percentage discount.

(1mark)

25a) Simplify: $\frac{4}{5} \div \frac{9}{14} \times \frac{3}{7} + 3\frac{7}{15}$

(3marks)

- b) Change $2\frac{1}{2}\%$ to a ratio.

(2marks)

26. The time table below shows the flights to and from different airports. Study it carefully and use it to answer the questions that follow.

Flight number	From	To	Departure time	Arrival time
QU 330	Entebbe	Nairobi	7:15am	8:00am
QU 310	Adis Ababa	Entebbe	8:30am	11:00am
ET 965	Arusha	Kigali	11:45am	1:45pm
QA 592	Entebbe	Dubai	4:30pm	9:15pm

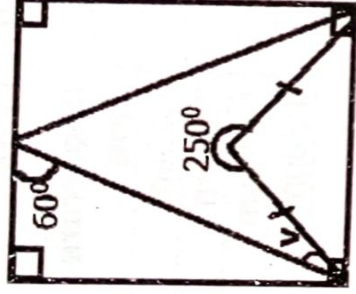
a) What is the departure time of plane from Entebbe to Nairobi in 24 hour clock?
(1mark)

b) How long is the flight from Arusha to Kigali?
(2marks)

c) An aeroplane from Entebbe to Dubai flies at **1360km/h**. How far is Dubai from Entebbe?
(2marks)

27. Muwembe spends **40%** of his salary on food. **75%** of the remainder on rent and saves the rest amounting to **sh. 180,000**.
Find how much he earns monthly.
(5marks)

28. Study the diagram below and use it to answer the question that follows.



- a) Find the value of v .

(3marks)

- b) What angle $\frac{1}{5}$ of it supplement?

(2marks)

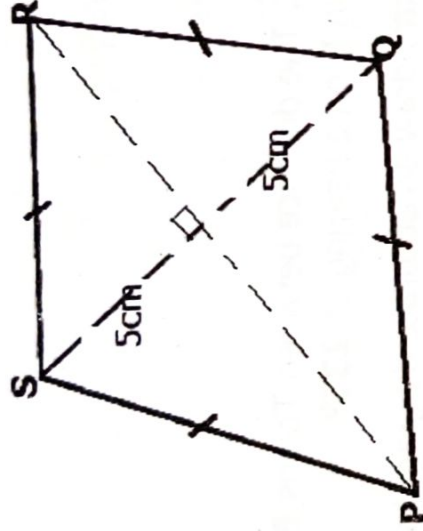
29. Given the equation of the line $y = 3x - 2$.

Complete the table below.

x	—	2	—	5
y	-2	—	7	—

(4marks)

30. The perimeter of the rhombus below is **52cm**.



a) Find the length of diagonal **PR**.

(4marks)

b) Find its area.

(2marks)

31. Solve:

a) $\frac{1}{3}(6y - 12) + \frac{3}{4}(8y + 20) = 27$

(3marks)

- b) Find the solution set for

$$-2 \leq 2y < 8$$

(2marks)

32. Town **B** is south of Town **C**. The distance between Towns **B** and **C** is **120km**. Town **D** is **80km** from Town **B** on a bearing of **235°**

- a) Using a scale of **1cm : 20km**, draw an accurate diagram to show the position of the three towns.

(4marks)

- b) Find the bearing of Town **D** from Town **C**.

(1mark)

THE END